

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 08045066  
 PUBLICATION DATE : 16-02-96

$(R_1-X_1)_n P(OM_1)_{3-n}$

$\parallel$   
 $Y_2$

$(R_2-X_2)_n P(OM_2)_{3-n}$

APPLICATION DATE : 29-07-94  
 APPLICATION NUMBER : 06178656

$(R_3)_n P(OM_3)_{3-n}$

$\parallel$   
 $Y_4$

$(R_4)_n P(OM_4)_{3-n}$

APPLICANT : FUJI PHOTO FILM CO LTD;

INVENTOR : OKITA TSUTOMU;

INT.CL. : G11B 5/72 G11B 5/66 // C07F 9/09  
 C07F 9/38 C07F 9/50 C07F 9/53  
 C10M137/04 C10M137/12

$(R_5-X_5)_n P(OM_5)_{3-n}$

$\parallel$   
 $Y_6$

$(R_6-X_6)_n P(OM_6)_{3-n}$

I

TITLE : MAGNETIC RECORDING MEDIUM

$(R_7)_n P(OM_7)_{3-n}$

$\parallel$   
 $Y_8$

$(R_8)_n P(OM_8)_{3-n}$

II

ABSTRACT : PURPOSE: To improve the running performance, durability and preservable property of a ferromagnetic metallic thin film type magnetic recording medium by allowing at least two kinds of phosphorus compds. represented by specified formulae to exist on a ferromagnetic metallic thin film.

CONSTITUTION: At least one of phosphorus compds. each having a short carbon chain represented by general formulae I and at least one of phosphorus compds. each having a long carbon chain represented by general formulae II are allowed to exist on a ferromagnetic metallic thin film. In the formulae I, II, each of R<sub>1</sub>-R<sub>4</sub> is a 4-10C fluorohydrocarbon or hydrocarbon chain, each of R<sub>5</sub>-R<sub>8</sub> is a 14-21C fluorohydrocarbon or hydrocarbon chain, each of X<sub>1</sub>, X<sub>2</sub>, X<sub>5</sub>, X<sub>6</sub>, Y<sub>2</sub>, Y<sub>4</sub>, Y<sub>6</sub> and Y<sub>8</sub> is O, S or N, (n) is an integer of 1-3 and each of M<sub>1</sub>-M<sub>8</sub> is H, an alkali metal, ammonium or prim. to quat. alkylammonium. A tough protective film is formed and the running performance, durability and preservable property of the resultant medium are improved.

COPYRIGHT: (C)1996,JPO